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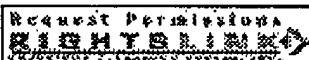
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On-chip repair and an ATE independent fusing methodology

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Abstract:

This paper describes a novel on chip repair system designed for ATE independent application on many unique very dense ASIC devices in a high turnover environment. During test, the system controls on chip built-in self-test (BIST) engines, collects compresses repair data, programs fuses and finally decompresses and reloads the data for post fuse testing. In end use applications this system decompresses the repair data at power-up or at the request of the system.

Index Terms:

application specific integrated circuits automatic test equipment built-in self test electrical integrated circuit testing maintenance engineering ASIC on-chip repairs ATE independent methodology BIST built-in self-test engines e-fuse programming electrically programmable high turnover environment on chip repair systems post fuse testing repair data collection/compression repair data decompression/reloading unique very dense ASIC

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